

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claim 1 (Currently Amended): A power transmission system, comprising:

an engine;

an electric motor;

a power synthesizing mechanism for synthesizing powers outputted from the engine and the electric motor, which includes a first planetary gear mechanism having a first sun gear, a first ring gear arranged on the outer side of said first sun gear, and a first carrier for holding a first pinion gear meshing with said first sun gear and said first ring gear;

a power generator having a fixed stator and an output portion connected to an input portion of the synthesizing mechanism;

a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, which includes a second planetary gear mechanism having a second sun gear, a second ring gear arranged on the outer side of said second sun gear, and a second carrier for holding a second pinion gear meshing with said second sun gear and said second ring gear;

an arranging region for said electric motor and an arranging region for said power generator in the axial directions of the output shaft of said electric motor and the rotary shaft of said power generator;

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a fixing mechanism for increasing the torque of said electric motor by fixing any of said second sun gear, said second ring gear and said second carrier, to transmit the increased torque to said power synthesizing mechanism; wherein

said arranging regions do not overlap on each other;

the first carrier of said first planetary gear mechanism and the engine are connected to each other;

said electric motor and the second sun gear of said second planetary gear mechanism are connected to each other;

the second carrier of said second planetary gear mechanism is fixed, and

the first ring gear of said first planetary gear mechanism and the second ring gear of said second planetary gear mechanism are connected to each other.

Claim 2 (Original): A power transmission system according to Claim 1,  
wherein the output shaft of said electric motor is arranged in the transverse direction of a vehicle.

Claims 3-7 (Canceled):

Claim 8 (Currently Amended): A power transmission system ~~according to Claim 6,~~  
~~further~~ comprising:

an engine;

an electric motor;

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a power synthesizing mechanism for synthesizing powers outputted from the engine and the electric motor, which includes a first planetary gear mechanism having a first sun gear, a first ring gear arranged on the outer side of said first sun gear, and a first carrier for holding a first pinion gear meshing with said first sun gear and said first ring gear;

a power generator having an output portion connected to an input portion of the synthesizing mechanism;

a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, which includes a second planetary gear mechanism having a second sun gear, a second ring gear arranged on the outer side of said second sun gear, and a second carrier for holding a second pinion gear meshing with said second sun gear and said second ring gear;

an arranging region for said electric motor and an arranging region for said power generator in the axial directions of the output shaft of said electric motor and the rotary shaft of said power generator, wherein said arranging regions do not overlap on each other;

a fixing mechanism for increasing the torque of said electric motor by fixing any of said second sun gear, said second ring gear and said second carrier, to transmit the increased torque to said power synthesizing mechanism; and

a first holding member for holding the first ring gear of said first planetary gear mechanism and the second ring gear of said second planetary gear mechanism rotatably, and arranged on the outer side of said first ring gear and said second ring gear.

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Claim 9 (Original): A power transmission system according to claim 8, further comprising:

an arranging region for said first holding member and an arranging region for said electric motor,

wherein at least a portion of the arranging region for said first holding member and at least a portion of the arranging region for said electric motor overlap on each other in the axial direction of the output shaft of said electric motor.

Claim 10 (Currently Amended): A power transmission system according to claim [[7]]  
1, further comprising:

a rotary member for connecting said engine and said first carrier and is arranged on the same axis as the output shaft of said electric motor.

Claim 11 (Currently Amended): A power transmission system ~~according to Claim 1,~~  
further comprising:

an engine;

an electric motor;

a power synthesizing mechanism for synthesizing powers outputted from the engine  
and the electric motor;

a power generator having an output portion connected to an input portion of the  
synthesizing mechanism;

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a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism;

an arranging region for said electric motor and an arranging region for said power generator in the axial directions of the output shaft of said electric motor and the rotary shaft of said power generator;

a rotary member offset in the radial direction with respect to the output shaft of said electric motor and connected to an engine,

wherein said arranging regions do not overlap on each other.

Claim 12 (Original): A power transmission system according to Claim 11, further comprising,

a first gear connected to the output shaft of said electric motor, and

wherein said speed change mechanism includes an internal gear, and

wherein said first gear is arranged in the inside space of said internal gear and meshes with said internal gear.

Claim 13 (Previously Presented): A power transmission system according to claim 12, further comprising:

a second holding member for holding said internal gear rotatably and arranged on the outer side of said internal gear.

Claim 14 (Original): A power transmission system according to claim 13, further comprising:

an arranging region for said second holding member,  
wherein at least a portion of the arranging region for said second holding member and at least a portion of the arranging region for said electric motor overlap on each other in the axial direction of the output shaft of said electric motor.

Claim 15 (Currently Amended): A power transmission system according to Claim [[7]]  
1, further comprising:

a second gear made rotatable together with said first ring gear,  
wherein the output shaft of said engine is connected to said first carrier, and  
wherein said speed change mechanism includes said second gear, and a third gear for transmitting the power of said electric motor to said second gear.

Claim 16 (Currently Amended): A power transmission system according to Claim [[7]]  
1, further comprising:

a fourth gear made rotatable together with said first ring gear; and  
a fifth gear made rotatable together with said fourth gear,  
wherein the output shaft of said engine is connected to said first carrier,  
wherein said speed change mechanism includes said fourth gear, and a sixth gear for transmitting the power of said electric motor to said fourth gear, and

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wherein the power of said first ring gear and the power of said fourth gear are synthesized so that the synthesized power is transmitted through said fifth gear to wheels.

Claim 17 (Currently Amended): A power transmission system according to Claim [[7]]  
1, further comprising:

a seventh gear made rotatable together with said first ring gear; and  
an eighth gear mesh with said seventh gear,  
wherein said speed change mechanism includes said eighth gear, and  
a ninth gear for transmitting the power of said electric motor to said eighth gear, and  
wherein the power of said seventh gear and the power of said ninth gear are synthesized so that the synthesized power is transmitted through said eighth gear to wheels.

Claim 18 (Currently Amended): A power transmission system according to claim [[1]]  
19,

wherein a space for separating the arranging region for said electric motor and the arranging region for said power generator is formed between said electric motor and said power generator in the axial direction, and arranges said power synthesizing mechanism and said speed change mechanism therein.

Claim 19 (Currently Amended): A power transmission system ~~according to claim 1,~~  
~~further~~ comprising:  
an engine;

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an electric motor;

a power synthesizing mechanism for synthesizing powers outputted from the engine  
and the electric motor;

a power generator having an output portion connected to an input portion of the  
synthesizing mechanism;

a speed change mechanism for changing the rotating speed of said electric motor to  
transmit a torque of the electric motor to said power synthesizing mechanism;

an arranging region for said electric motor and an arranging region for said power  
generator in the axial directions of the output shaft of said electric motor and the rotary shaft of  
said power generator, wherein said arranging regions do not overlap on each other; further  
comprising:

a wound transmission member made to run on the output member of said power  
synthesizing mechanism and an intermediate rotary member;

a differential arranged concentrically with said intermediate rotary member; and

a decelerating planetary gear mechanism arranged concentrically with said intermediate  
rotary member and said differential and, when transmitting the power of the intermediate rotary  
member to the differential, transmitting the power by decelerating the rotating speed of the  
power.

Claim 20 (Canceled).



Claim 21 (Previously Presented): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator having a fixed stator, and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and an arranging region for said power generator in the axial directions of the output shaft of said electric motor and the rotary shaft of said power generator,

wherein said arranging regions do not overlap on each other,

wherein said power synthesizing mechanism includes a first planetary gear mechanism having: a first sun gear; a first ring gear arranged on the outer side of said first sun gear; and a first carrier for holding a first pinion gear meshing with said first sun gear and said first ring gear and connected to an engine, and

wherein said speed change mechanism includes: a second planetary gear mechanism having: a second sun gear connected to the electric motor; a second ring gear arranged on the outer side of said second sun gear and connected to the first ring gear; and a second carrier for holding a second pinion gear meshing with said second sun gear and said second ring gear: and a fixing mechanism for increasing the torque of said electric motor by fixing any of said second sun gear, said second ring gear and said second carrier, to transmit the increased torque to said power synthesizing mechanism.

Claim 22 (Previously Presented): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator having a fixed stator, and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and an arranging region for said power generator in the axial directions of the output shaft of said electric motor and the rotary shaft of said power generator,

wherein said arranging regions do not overlap on each other,

wherein said power synthesizing mechanism includes a first planetary gear mechanism having: a first sun gear; a first ring gear arranged on the outer side of said first sun gear; and a first carrier for holding a first pinion gear meshing with said first sun gear and said first ring gear,

wherein said speed change mechanism includes: a second planetary gear mechanism having: a second sun gear; a second ring gear arranged on the outer side of said second sun gear; and a second carrier for holding a second pinion gear meshing with said second sun gear and said second ring gear; and a fixing mechanism for increasing the torque of said electric motor by fixing any of said second sun gear, said second ring gear and said second carrier, to transmit the increased torque to said power synthesizing mechanism, and

wherein the first ring gear of said first planetary gear mechanism and the second ring gear of said second planetary gear mechanism are rotatably held by a first holding member which is arranged on the outer side of said first ring gear and said second ring gear.

Claim 23 (Previously Presented): A power transmission system according to Claim 22, further comprising:

an arranging region for said first holding member and an arranging region for said electric motor,

wherein at least a portion of the arranging region for said first holding member and at least a portion of the arranging region for said electric motor overlap on each other in the axial direction of the output shaft of said electric motor.

Claim 24 (Previously Presented): A power transmission system according to Claim 21, further comprising:

a rotary member for connecting said engine and said first carrier and is arranged on the same axis as the output shaft of said electric motor.

Claim 25 (Previously Presented): A power transmission system according to Claim 21, further comprising:

a rotary member offset in the radial direction with respect to the output shaft of said electric motor and connected to said engine.

Claim 26 (Previously Presented): A power transmission system according to Claim 21, further comprising:

a first gear connected to the output shaft of said electric motor, and

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wherein said speed change mechanism includes an internal gear, and

wherein said first gear is arranged in the inside space of said internal gear and meshes with said internal gear.

Claim 27 (Previously Presented): A power transmission system according to Claim 26, further comprising:

a second holding member for holding said internal gear rotatably and is arranged on the outer side of said internal gear.

Claim 28 (Previously Presented): A power transmission system according to Claim 27, further comprising:

an arranging region for said second holding member,

wherein at least a portion of the arranging region for said second holding member and at least a portion of the arranging region for said electric motor overlap on each other in the axial direction of the output shaft of said electric motor.

Claim 29 (Currently Amended): A power transmission system according to Claim 21, further comprising:

a second gear made rotatable together with said first ring gear,

wherein the output shaft of said engine is connected to said first ~~sun-gear~~ carrier, and

wherein said speed change mechanism includes said second gear, and a third gear for transmitting the power of said electric motor to said second gear.

Claim 30 (Previously Presented): A power transmission system according to Claim 27,  
further comprising:

a fourth gear made rotatable together with said first ring gear; and  
a fifth gear made rotatable together with said fourth gear,  
wherein the output shaft of said engine is connected to said first sun  
gear,  
wherein said speed change mechanism includes said fourth gear, and a sixth gear for  
transmitting the power of said electric motor to said fourth gear, and  
wherein the power of said first ring gear and the power of said fourth gear are  
synthesized so that the synthesized power is transmitted through said fifth gear to wheels.

Claim 31 (Previously Presented): A power transmission system according to Claim 21,  
further comprising:

a seventh gear made rotatable together with said first ring gear; and  
an eighth gear mesh with said seventh gear,  
wherein said speed change mechanism includes said eighth gear, and a ninth gear for  
transmitting the power of said electric motor to said eighth gear, and  
wherein the power of said seventh gear and the power of said ninth gear are synthesized  
so that the synthesized power is transmitted through said eighth gear to wheels.

Claim 32 (Previously Presented): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator, and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and an arranging region for said power generator in the axial directions of the output shaft of said electric motor and the rotary shaft of said power generator,

a wound transmission member made to run on the output member of said power synthesizing mechanism and an intermediate rotary member;

a differential arranged concentrically with said intermediate rotary member; and

a decelerating planetary gear mechanism arranged concentrically with said intermediate rotary member and said differential and, when transmitting the power of the intermediate rotary member to the differential, transmitting the power by decelerating the rotating speed of the power,

wherein said arranging regions do not overlap on each other.

Claim 33 (Previously Presented): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator, and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

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an arranging region for said electric motor and an arranging region for said power generator in the axial directions of the output shaft of said electric motor and the rotary shaft of said power generator,

a wound transmission member made to run on the output member of said power synthesizing mechanism and an intermediate rotary member;

a differential arranged concentrically with said intermediate rotary member; and

a decelerating planetary gear mechanism arranged concentrically with said intermediate rotary member and said differential and, when transmitting the power of the intermediate rotary member to the differential, transmitting the power by decelerating the rotating speed of the power,

wherein said arranging regions do not overlap on each other, and

wherein a space for separating the arranging region for said electric motor and the arranging region for said power generator is formed between said electric motor and said power generator in the axial direction, and arranges said power synthesizing mechanism and said speed change mechanism therein.

Claim 34 (Currently Amended): A power transmission system which has a power synthesizing mechanism for synthesizing powers outputted from an electric motor and an engine, a power generator having a fixed stator and being connected to the synthesizing mechanism, and a speed change mechanism for augmenting a torque transmitted from the electric motor to said power synthesizing mechanism, comprising:

a first planetary gear mechanism comprising the speed change mechanism and having:  
a first sun gear; a first ring gear arranged on the outer side of the first sun gear; and a first carrier for holding first pinion gears interposed between and meshing with the first sun gear and the first ring gear; and

a fixing mechanism for increasing the torque of said electric motor by fixing any of said first sun gear, said first ring gear and said first carrier, to transmit the increased torque to said power synthesizing mechanism,

wherein the first sun gear is connected to the electric motor, the first carrier is held by the fixing mechanism and the first ring gear is connected to an output member.

Claims 35-37 (Canceled).

Claim 38 (Currently Amended): A power transmission system ~~according to Claim 37,~~  
which has a power synthesizing mechanism for synthesizing powers outputted from an electric motor and an engine, a power generator connected to the synthesizing mechanism, and a speed change mechanism for augmenting a torque transmitted from the electric motor to said power synthesizing mechanism, comprising:

a first planetary gear mechanism comprising the speed change mechanism and having:  
a first sun gear; a first ring gear arranged on the outer side of the first sun gear; and a first carrier for holding first pinion gears interposed between and meshing with the first sun gear and the first ring gear; and



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a second planetary gear mechanism comprising the synthesizing mechanism and having: a second sun gear; a second ring gear arranged on the outer side of the second sun gear; and a second carrier for holding second pinion gears interposed between the second sun gear and the second ring gear;

wherein one of the first sun gear, the first ring gear and the first carrier is connected to one of the second sun gear, the second ring gear and the second carrier,

~~wherein the second pinion gear meshes with the second sun gear and the second ring gear, and~~

wherein the second sun gear is connected to the power generator, the second carrier is connected to an output shaft of the engine and the second ring gear is connected to the first ring gear.

Claim 39 (Currently Amended): A power transmission system ~~according to claim 35,~~  
which has a power synthesizing; mechanism for synthesizing powers outputted from an electric motor and an engine, a power generator having; a fixed stator and being connected to the synthesizing mechanism and a speed change mechanism for augmenting a torque transmitted from the electric motor to said power synthesizing mechanism, comprising

a first planetary gear mechanism comprising the speed change mechanism and having a first sun gear; a first ring gear arranged on the outer side of the first sun gear; and a first carrier for holding first pinion gears interposed between and meshing with the first sun gear and the first ring gear; and

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a fixing mechanism for increasing the torque of said electric motor by fixing any of said first sun gear, said first ring gear and said first carrier, to transmit the increased torque to said power synthesizing mechanism,

wherein the first sun gear is connected to the electric motor, the first ring gear is fixed by the fixing mechanism and the first carrier is connected to an output member.

Claim 40 (Previously Presented): A power transmission system according to Claim 39, further comprising:

a second planetary gear mechanism comprising the synthesizing mechanism and having: a second sun gear; a second ring gear arranged on the outer side of the second sun gear; and a second carrier for holding second pinion gears interposed between the second sun gear and the second ring gear:

wherein one of the first sun gear, the first ring gear and the first carrier is connected to one of the second sun gear, the second ring gear and the second carrier.

Claim 41 (Previously Presented): A power transmission system according to Claim 39, wherein the second pinion gears mesh with the second sun gear and the second ring gear,

wherein the second sun gear is connected to the power generator, the second carrier is connected to an output shaft of the engine and the second ring gear is connected to the first ring gear.

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Claim 42 (New): A power transmission system comprising:

an engine;

an electric motor;

a power synthesizing mechanism for synthesizing powers outputted from the engine  
and the electric motor;

a power generator having a fixed stator and an output portion connected to an input  
portion of the synthesizing mechanism;

a speed change mechanism having a plurality of gears for changing the rotating speed of  
said electric motor to transmit a torque of the electric motor to said power synthesizing  
mechanism;

an arranging region for said electric motor and an arranging region for said power  
generator in the axial directions of the output shaft of said electric motor and the rotary shaft of  
said power generator, wherein said arranging regions do not overlap on each other; and

a fixing mechanism for continuously fixing any of the gears to the casing.

Claim 43 (New): A power transmission system according to Claim 42,

wherein said fixing mechanism continuously fixes any of the gears to increase the  
torque of said electric motor and to transmit the increased torque to said power synthesizing  
mechanism.

Claim 44 (New): A power transmission system according to Claim 42,

wherein said power synthesizing mechanism includes a planetary gear mechanism having a sun gear; a ring gear arranged on the outer side of said sun gear; and a carrier for holding a pinion gear meshing with said sun gear and said ring gear.

Claim 45 (New): A power transmission system according to Claim 42,  
wherein said speed change mechanism includes a planetary gear mechanism having a sun gear a ring gear arranged on the outer side of said sun gear; and a carrier for holding a pinion gear meshing with said sun gear and said ring gear.

Claim 46 (New): A power transmission system according to Claim 45,  
wherein said speed change mechanism has any of said sun gear, said ring gear and said carrier fixed so that the torque of said electric motor is increased by said speed change mechanism and transmitted to said power synthesizing mechanism.

Claim 47 (New): A power transmission system comprising:  
an engine;  
an electric motor;  
a power synthesizing mechanism for synthesizing powers outputted from the engine and the electric motor;  
a power generator having a fixed stator and an output portion connected to an input portion of the synthesizing mechanism;

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a speed change mechanism having a plurality of gears for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism; and

a fixing mechanism for continuously fixing any of the gears to the casing.

Claim 48 (New): A power transmission system according to Claim 47, further comprising:

a first planetary gear mechanism comprising the speed change mechanism and having a first sun gear; a first ring gear arranged on the outer side of the first sun gear; and a first carrier for holding first pinion gears interposed between the first sun gear and the first ring gear.

Claim 49 (New): A power transmission system according to Claim 48, wherein said fixing mechanism includes a mechanism for increasing the torque of said electric motor by fixing any of said first sun gear, said first ring gear and said first carrier, to transmit the increased torque to said power synthesizing mechanism.

Claim 50 (New): A power transmission system according to Claim 48, further comprising:

a second planetary gear mechanism comprising the synthesizing mechanism and having a second sun gear; a second ring gear arranged on the outer side of the second sun gear; and a second carrier for holding second pinion gears interposed between the second sun gear and the second ring gear;

wherein one of the first sun gear, the first ring gear and the first carrier is connected to one of the second sun gear, the second ring gear and the second carrier.

Claim 51 (New): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator , and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and arranging region for said power generator in the axial direction of the output shaft of said electric motor and a rotary shaft of said power generator, wherein said arranging regions do not overlap on each other,

a first planetary gear mechanism comprising the power synthesizing mechanism and having a first sun gear, a first ring gear arranged on the outer side of said first sun gear, and a first carrier for holding a first pinion gear meshing with said first sun gear,

a second planetary gear mechanism comprising the speed change mechanism and having a second sun gear, a second ring gear arranged on the outer side of said second sun gear, and a second carrier for holding a second pinion gear meshing with said second sun gear and said second ring gear, and

a first holding member for holding the first ring gear and the second ring gear rotatably, wherein said first carrier is connected to an engine,

wherein said second sun gear is connected to said electric motor, wherein said second ring gear is fixed,

wherein said first ring gear and said second carrier are connected each other, and  
wherein at least a portion of an arranging region for said first holding member and at least a portion of an arranging region for said electric motor overlap on each other in the axial direction of the output shaft of said electric motor.

Claim 52 (New): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator , and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and arranging region for said power generator in the axial direction of the output shaft of said electric motor and a rotary shaft of said power generator, wherein, said arranging regions do not overlap on each other,

said power synthesizing mechanism includes a first planetary gear mechanism having a first sun gear; a first ring gear arranged on the outer side of said first sun gear; and a first carrier for holding a first pinion gear meshing with said first sun gear and said first ring gear and connected to an engine,

said first carrier is connected to an engine,

said first sun gear is connected to said power generator,

an output shaft of said electric motor is connected to said first ring gear through said speed change mechanism, and

said output shaft of the electric motor offset in the radial direction with respect to a rotary member connected to said engine.

Claim 53 (New): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator , and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and arranging region for said power generator in the axial direction of the output shaft of said electric motor and a rotary shaft of said power generator, wherein, said arranging regions do not overlap on each other,

said output shaft of the electric motor offset in the radial direction with respect to a rotary member connected to said engine,

said speed change mechanism includes an internal gear, and

a first gear connected to the output shaft of said electric motor is arranged in the inside space of said internal gear and meshes with said internal gear.

Claim 54 (New): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator, and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising



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an arranging region for said electric motor and arranging region for said power generator in the axial direction of the output shaft of said electric motor and a rotary shaft of said power generator, wherein said arranging regions do not overlap on each other, and

a first planetary gear mechanism comprising said power synthesizing mechanism and having a first sun gear a first ring gear arranged on the outer side of the first sun gear and a first carrier for holding first pinion gears meshing with the first sun gear and the first ring gear,

wherein an output shaft of the engine is connected to the first carrier,

wherein the output shaft of said electric motor offset in the radial direction with respect to a rotary member connected to said engine, and

wherein said speed change mechanism includes a second gear made rotatable together with the first ring gear and a third gear for transmitting the power of the electric motor to the second gear.

Claim 55 (New): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator, and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and arranging region for said power generator in the axial direction of the output shaft of said electric motor and a rotary shaft of said power generator, wherein said arranging regions do not overlap on each other;

a first planetary gear mechanism comprising said power synthesizing mechanism and having a first sun gear; a first ring gear arranged on the outer side of the first sun gear; and a first carrier for holding first pinion gears meshing with the first sun gear and the first ring gear;

a fourth gear made rotatable together with the first ring gear; a fifth gear made rotatable together with the fourth gear, wherein the output shaft of said engine is connected to said first carrier,

wherein said speed change mechanism includes said fourth gear, and a sixth gear for transmitting the power of said electric motor to said fourth gear,

wherein the power of said first ring gear and the power of said fourth gear are synthesized so that the synthesized power is transmitted through said fifth gear to wheels, and

wherein the output shaft of said electric motor offset in the radial direction with respect to a rotary member connected to said engine.

Claim 56 (New): A power transmission system which has a power synthesizing mechanism connected in a power transmitting manner to an electric motor and a power generator, and a speed change mechanism for changing the rotating speed of said electric motor to transmit a torque of the electric motor to said power synthesizing mechanism, comprising:

an arranging region for said electric motor and arranging region for said power generator in the axial direction of the output shaft of said electric motor and a rotary shaft of said power generator, wherein said arranging regions do not overlap on each other;

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a first planetary gear mechanism comprising said power synthesizing mechanism and having a first sun gear a first ring gear arranged on the outer side of the first sun gear; and a first carrier for holding first pinion gears meshing with the first sun gear and the first ring gear;

a seventh gear made rotatable together with the first ring gear; an eighth gear mesh with said seventh gear,

wherein said speed change mechanism includes said eighth gear, and a ninth gear for transmitting the power of said electric motor to said seventh gear,

wherein the power of said seventh gear and the power of said ninth gear are synthesized so that the synthesized power is transmitted through said fifth gear to wheels,

wherein the output shaft of said electric motor offset in the radial direction with respect to a rotary member connected to an engine.